

Name: _____

at1124exam: Radicals and Squares (v811)

Question 1

Simplify the radical expressions.

$$\sqrt{45}$$

$$\sqrt{28}$$

$$\sqrt{75}$$

Question 2

Find all solutions to the equation below:

$$4(x + 8)^2 - 8 = 92$$

Question 3

By completing the square, find both solutions to the given equation. *You must show work for full credit!*

$$x^2 - 18x = 88$$

Question 4

A quadratic polynomial function is shown below in standard form.

$$y = 2x^2 + 20x + 58$$

Express the function in **vertex form** and identify the **location** of the vertex.